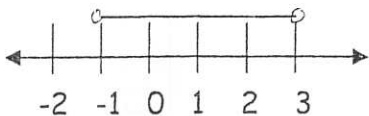
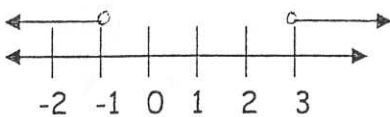
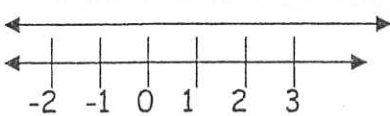
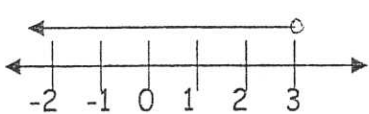


Multiple Choice.

_____1. Determine which graph represents the solution of $|x - 1| < 2$

- a. 
- b. 
- c. 
- d. 

_____2. Find the slope of a line containing $(-5, 6)$ and $(-1, 8)$

- a. $-\frac{1}{2}$
- b. $\frac{1}{2}$
- c. $-\frac{7}{3}$
- d. 2

_____3. Determine the vertex of $y = |x - 4| + 7$

- a. $(7, 4)$
- b. $(4, 7)$
- c. $(-4, 7)$
- d. $(4, -7)$

_____4. Determine the axis of symmetry for $y = |x + 9| - 1$

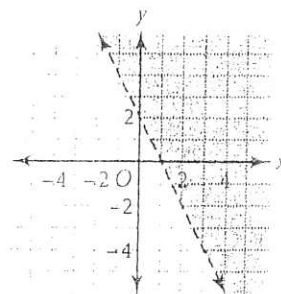
- a. $x = -1$
- b. $x = 9$
- c. $x = -9$
- d. $x = 1$

_____ 5. Find the solution to $|5x - 10| - 5 = 15$

- a. $x = -6$
- b. $x = -2$
- c. $x = 6$ or $x = -2$
- d. $x = -6$ or $x = 2$

_____ 6. Which inequality does the graph represent?

- a. $y \geq -2x + 2$
- b. $y > 2x + 2$
- c. $y > -2x + 1$
- d. $y > -2x + 2$



_____ 7. Which equation represents a graph that translates 3 units to the left and 4 units down from the parent graph?

- a. $y = |x - 3| - 4$
- b. $y = |x + 3| - 4$
- c. $y = |x - 4| - 3$
- d. $y = |x + 4| - 3$

_____ 8. Find the axis of symmetry for $y = 3x^2 + 8x - 5$

- a. $x = -4$
- b. $x = 4$
- c. $x = 4/3$
- d. $x = -4/3$

_____ 9. If the discriminant is greater than zero, then there is/are

- a. one real solution
- b. two real solutions
- c. two imaginary solutions
- d. no solutions

10. Write a system of equations to represent the following.

Last year the volleyball team paid \$5 per pair for socks and \$17 per pair for shorts on a total purchase of \$315. This year they spent \$342 to buy the same number of socks and shorts but the socks now cost \$6 per pair and the shorts cost 18.

5. Find the solution to $|5x - 10| - 5 = 15$

$$|5x - 10| = 20$$

$$5x - 10 = 20$$

$$5x = 30$$

$$x = 6$$

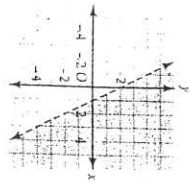
$$5x - 10 = -20$$

$$5x = -10$$

$$x = -2$$

- a. $x = -6$
b. $x = -2$
c. $x = 6$ or $x = -2$
d. $x = -6$ or $x = 2$

6. Which inequality does the graph represent?



- a. $y \geq -2x + 2$
b. $y > 2x + 2$
c. $y > -2x + 1$
d. $y > -2x + 2$

7. Which equation represents a graph that translates 3 units to the left and 4 units down from the parent graph?

- a. $y = |x - 3| - 4$
b. $y = |x + 3| - 4$
c. $y = |x - 4| - 3$
d. $y = |x + 4| - 3$

8. Find the axis of symmetry for $y = 3x^2 + 8x - 5$

$$x = -\frac{b}{2a}$$

$$x = -\frac{8}{6}$$

$$x = -4/3$$

- a. $x = -4$
b. $x = 4$
c. $x = 4/3$
d. $x = -4/3$

9. If the discriminant is greater than zero, then there is/are

- a. one real solution
b. two real solutions
c. two imaginary solutions
d. no solutions

10. Write a system of equations to represent the following.

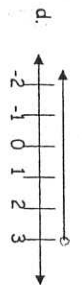
Last year the volleyball team paid \$5 per pair for socks and \$17 per pair for shorts on a total purchase of \$315. This year they spent \$342 to buy the same number of socks and shorts but the socks now cost \$6 per pair and the shorts cost 18.

$$5s + 17h = 315$$

$$6s + 18h = 342$$

Multiple Choice.

1. Determine which graph represents the solution of $|x - 1| < 2$



2. Find the slope of a line containing $(-5, 6)$ and $(-1, 8)$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{8 - 6}{-1 - (-5)}$$

$$m = \frac{2}{4}$$

$$m = \frac{1}{2}$$

- a. $-\frac{1}{2}$
b. $\frac{1}{2}$
c. $-\frac{7}{3}$
d. 2

3. Determine the vertex of $y = |x - 4| + 7$

- a. $(7, 4)$
b. $(4, 7)$
c. $(-4, 7)$
d. $(4, -7)$

4. Determine the axis of symmetry for $y = |x + 9| - 1$

- a. $x = -1$
b. $x = 9$
c. $x = -9$
d. $x = 1$